

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P152165

Luminaire Tested: **VXS-F03-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152165
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F03-LED-E1-SL4
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7316.1 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

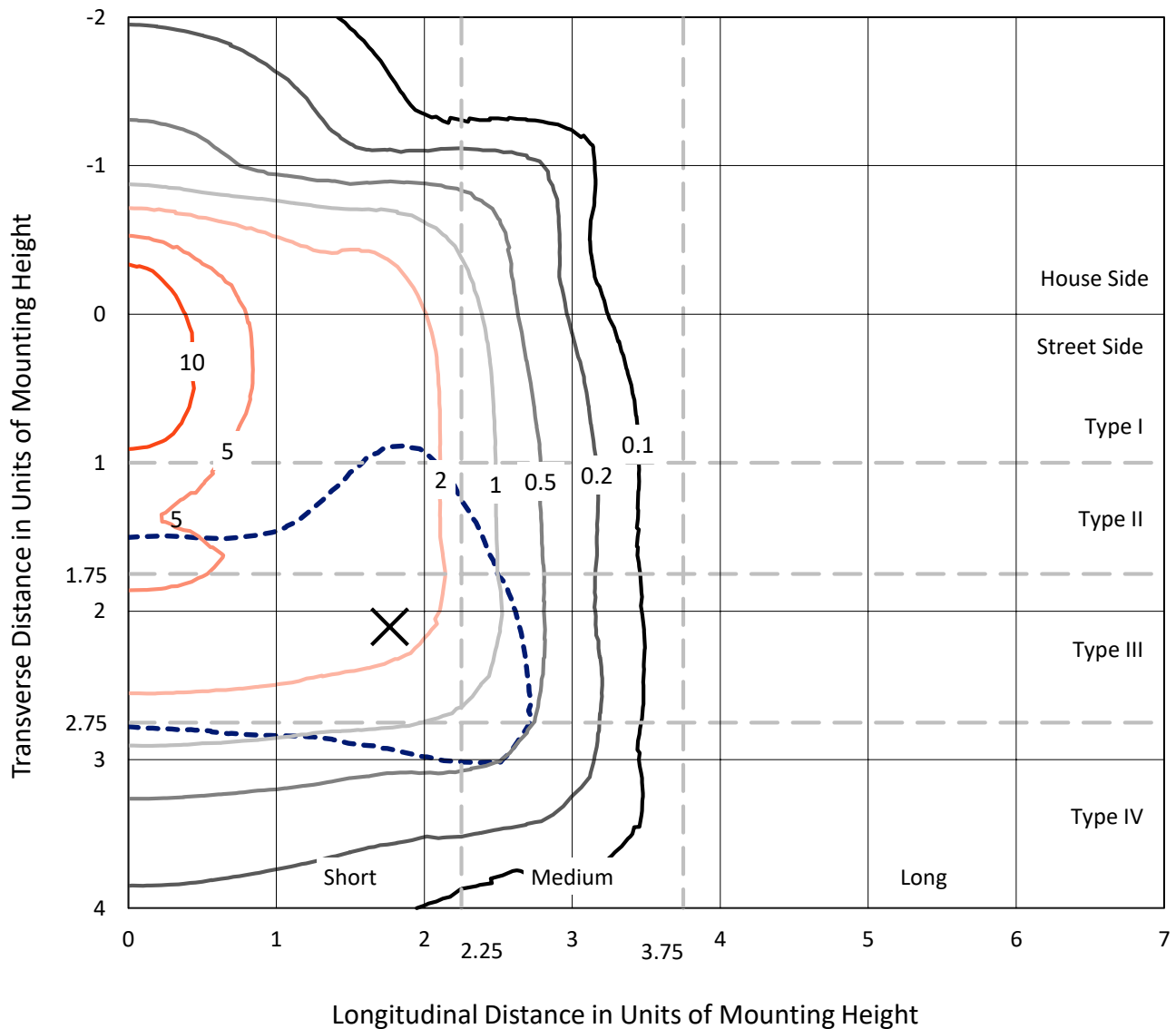


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

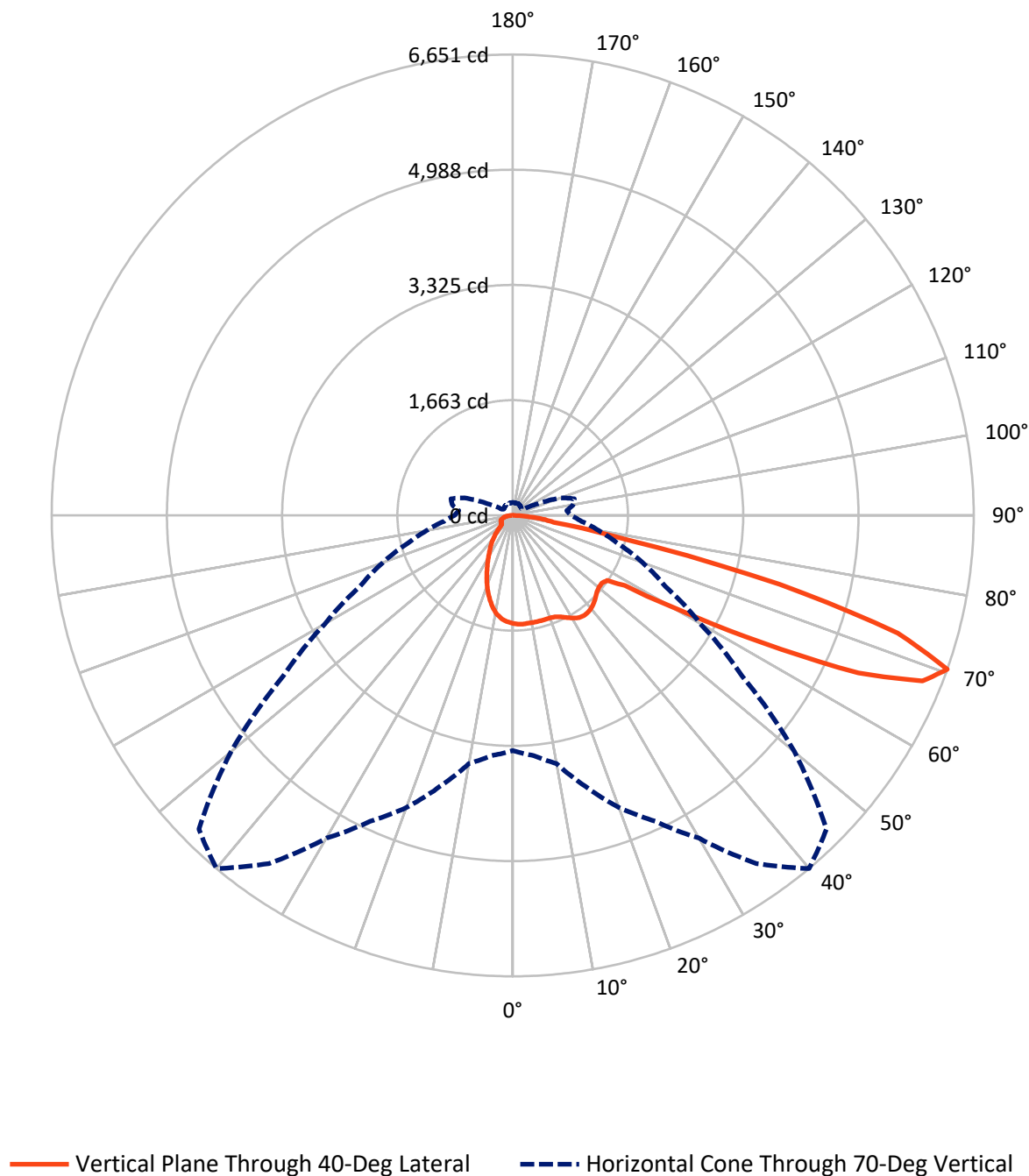


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.7	0.0	1518.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5797.3	0.0	5797.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	7316.1	0.0	7316.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	2.0
10°-20°	399.2	5.5
20°-30°	591.0	8.1
30°-40°	746.9	10.2
40°-50°	844.7	11.5
50°-60°	1202.0	16.4
60°-70°	2238.6	30.6
70°-80°	1026.0	14.0
80°-90°	121.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7316.1	100.0
0°-180°	7316.1	100.0

Coefficient of Utilization



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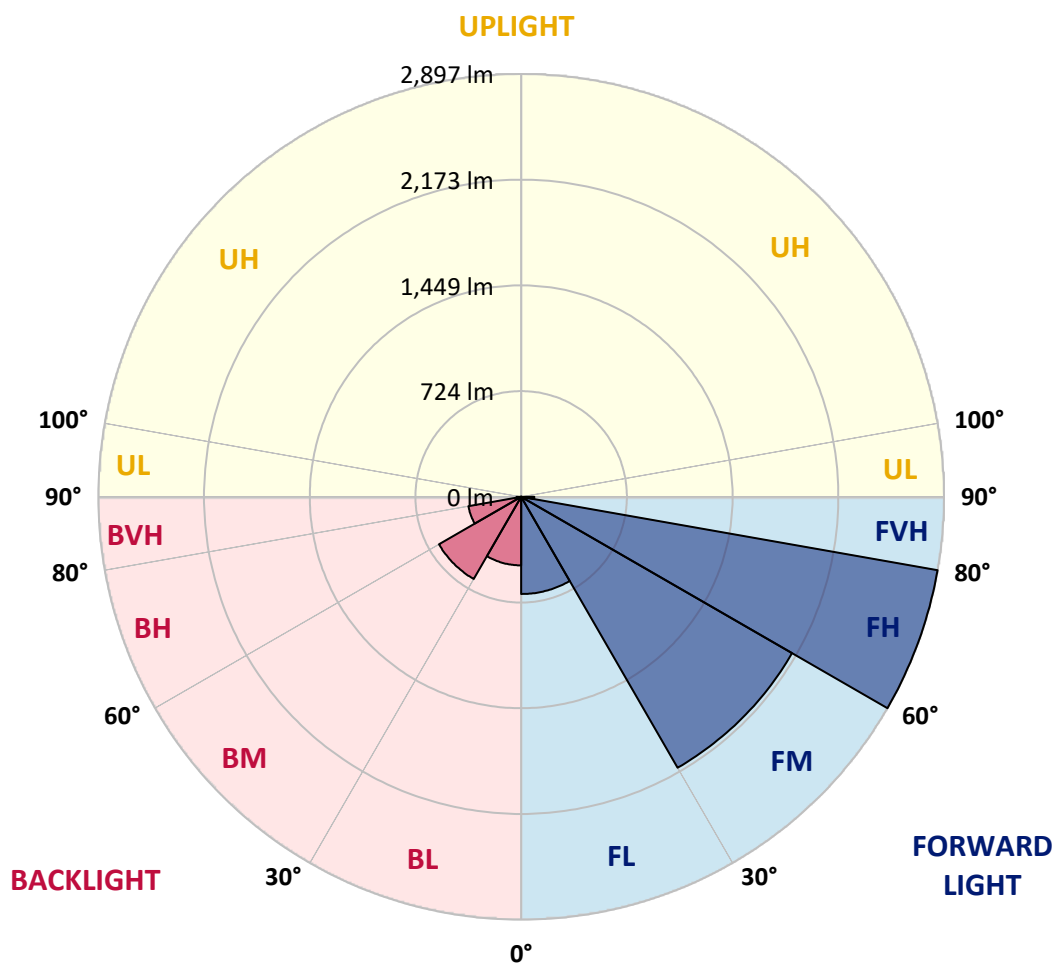
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.2	9.1			
FM	(30°-60°)	2143.4	29.3			
FH	(60°-80°)	2897.5	39.6			G2/5000
FVH	(80°-90°)	90.3	1.2			G1/100
BL	(0°-30°)	469.9	6.4	B1/500		
BM	(30°-60°)	650.2	8.9	B1/1000		
BH	(60°-80°)	367.2	5.0	B1/500		G1/500
BVH	(80°-90°)	31.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0
2.5°	1585.0	1589.1	1584.1	1583.3	1583.3	1582.5	1577.6	1576.8	1570.2	1571.0	1572.6
5°	1596.6	1598.2	1594.9	1594.1	1592.4	1589.1	1585.0	1580.1	1575.1	1570.2	1566.0
7.5°	1608.1	1606.4	1604.0	1604.0	1601.6	1596.6	1588.3	1581.7	1571.0	1565.2	1557.7
10°	1624.7	1622.2	1618.9	1617.2	1613.1	1605.6	1594.1	1585.0	1571.8	1560.2	1547.9
12.5°	1640.3	1639.5	1634.5	1632.0	1625.5	1618.0	1604.0	1589.9	1572.6	1554.5	1537.9
15°	1668.4	1665.1	1660.1	1655.1	1644.5	1634.5	1613.1	1596.6	1571.8	1547.9	1522.3
17.5°	1717.1	1711.3	1706.3	1695.6	1682.4	1665.1	1633.7	1605.6	1571.8	1537.1	1508.2
20°	1806.2	1793.9	1787.3	1773.3	1750.2	1718.8	1670.1	1624.7	1574.3	1529.7	1490.9
22.5°	1906.9	1898.8	1889.6	1880.5	1844.2	1798.9	1732.7	1665.1	1589.1	1526.4	1476.9
25°	2020.1	2009.3	2004.4	1988.7	1954.8	1902.8	1812.8	1718.8	1623.0	1539.6	1476.9
27.5°	2120.7	2117.5	2116.7	2098.4	2066.3	2005.2	1898.8	1785.6	1669.2	1566.8	1489.2
30°	2212.4	2209.1	2207.5	2197.5	2160.4	2087.8	1972.2	1845.1	1719.6	1604.9	1512.3
32.5°	2309.8	2299.1	2294.1	2275.1	2233.1	2148.0	2016.0	1883.8	1759.2	1642.0	1537.9
35°	2389.1	2380.0	2370.1	2342.8	2283.4	2182.7	2034.9	1897.1	1774.9	1662.6	1551.2
37.5°	2446.8	2437.8	2423.7	2389.1	2315.6	2194.2	2034.1	1893.0	1769.1	1659.3	1553.7
40°	2472.4	2463.3	2448.5	2404.8	2321.3	2187.7	2018.4	1874.0	1751.8	1642.0	1543.7
42.5°	2462.6	2456.0	2437.0	2394.8	2303.2	2157.9	1987.0	1838.4	1718.8	1613.9	1521.5
45°	2424.6	2419.6	2401.5	2356.9	2262.0	2110.1	1940.8	1793.9	1679.1	1579.3	1491.7
47.5°	2367.6	2365.9	2347.8	2304.0	2209.9	2062.2	1893.0	1750.2	1639.5	1545.4	1466.9
50°	2304.9	2296.6	2287.6	2247.0	2161.2	2020.9	1858.2	1722.9	1617.2	1533.0	1456.3
52.5°	2265.3	2262.8	2254.5	2218.1	2135.6	1997.0	1842.6	1713.0	1615.5	1530.6	1450.5
55°	2616.9	2622.7	2546.7	2389.1	2250.4	2063.0	1889.6	1763.3	1656.0	1570.2	1511.5
57.5°	3870.9	3845.3	3714.8	3402.0	3048.7	2582.3	2246.2	2042.4	1909.4	1924.2	1954.0
60°	4509.8	4504.9	4480.9	4359.6	4124.4	3769.3	3375.5	2924.0	2780.4	2796.1	2807.6
62.5°	4795.4	4802.9	4821.0	4775.6	4713.8	4610.6	4414.1	4232.4	4040.1	3968.3	3776.0
65°	4927.6	4940.7	4982.1	5007.7	5031.6	5049.7	5127.4	5340.3	5480.6	5218.1	4607.3
67.5°	4654.3	4717.8	4854.1	4987.0	5105.9	5275.1	5537.6	6032.1	6376.4	6053.6	5167.8
70°	3393.0	3479.6	3635.6	4046.7	4485.9	4869.7	5378.3	6131.2	6650.5	6401.1	5306.4
72.5°	2127.4	2151.3	2220.6	2371.7	2697.8	3190.7	4079.8	5209.0	5808.4	5609.4	4485.1
75°	1349.7	1358.0	1355.5	1390.2	1445.5	1552.8	1904.5	3076.7	3979.1	3668.6	2499.7
77.5°	804.0	816.5	821.3	832.1	858.5	896.5	925.4	1046.7	1668.4	1619.7	907.3
80°	673.7	683.5	675.2	672.8	656.3	644.8	658.8	644.8	598.5	576.2	530.8
82.5°	356.6	355.8	353.4	377.3	426.0	463.9	492.8	486.2	440.0	374.8	317.8
85°	195.6	202.3	202.3	210.5	203.1	203.9	210.5	222.1	205.6	171.7	140.3
87.5°	16.5	25.6	20.6	25.6	34.7	24.8	23.9	23.9	20.6	14.8	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0
2.5°	1568.5	1566.8	1563.5	1561.0	1561.0	1556.9	1554.5	1552.8	1552.0	1548.7	1548.7
5°	1563.5	1557.7	1552.0	1547.9	1545.4	1541.2	1534.6	1531.4	1527.3	1523.9	1522.3
7.5°	1552.8	1542.1	1533.0	1526.4	1518.1	1511.5	1503.3	1495.9	1488.4	1485.1	1483.4
10°	1536.3	1522.3	1508.2	1495.9	1484.2	1472.7	1462.0	1451.3	1442.2	1435.5	1429.0
12.5°	1520.6	1499.2	1481.0	1462.8	1444.7	1430.7	1415.8	1400.1	1386.8	1374.5	1371.2
15°	1499.2	1474.4	1451.3	1429.0	1406.7	1383.6	1365.4	1348.1	1326.6	1312.5	1301.9
17.5°	1479.4	1449.6	1421.6	1395.1	1367.9	1343.9	1316.7	1293.6	1272.1	1250.7	1235.0
20°	1457.9	1425.7	1396.0	1366.2	1336.5	1306.0	1274.6	1244.9	1218.4	1192.8	1167.3
22.5°	1438.9	1405.9	1377.0	1344.8	1311.7	1277.1	1240.7	1203.6	1173.1	1140.0	1110.4
25°	1427.4	1391.0	1361.2	1329.9	1293.6	1255.6	1214.3	1170.6	1133.5	1095.4	1060.0
27.5°	1427.4	1380.3	1349.7	1318.3	1281.2	1240.7	1195.3	1147.5	1105.4	1063.3	1019.5
30°	1439.7	1382.0	1340.6	1307.7	1269.6	1225.9	1175.5	1125.2	1079.0	1029.4	987.4
32.5°	1451.3	1385.2	1334.1	1291.9	1248.2	1205.3	1154.1	1100.4	1049.2	1002.2	957.6
35°	1458.7	1385.2	1321.7	1268.0	1218.4	1176.4	1126.0	1072.3	1020.3	974.1	932.8
37.5°	1459.5	1378.7	1301.9	1240.7	1188.7	1145.0	1097.1	1046.7	997.2	954.3	919.6
40°	1451.3	1365.4	1282.1	1211.9	1157.4	1112.8	1069.0	1023.6	979.1	943.5	913.9
42.5°	1436.4	1351.4	1263.0	1188.7	1131.8	1085.6	1045.1	1006.3	967.6	937.0	912.2
45°	1414.1	1332.4	1245.7	1174.7	1118.5	1069.8	1030.3	998.0	965.1	939.5	914.7
47.5°	1394.3	1325.8	1251.5	1183.8	1125.2	1074.8	1034.4	1007.2	981.6	964.2	930.4
50°	1390.2	1322.5	1254.0	1191.2	1131.8	1080.6	1045.1	1031.1	1023.6	1013.0	960.9
52.5°	1378.7	1321.7	1272.1	1237.5	1199.5	1175.5	1138.4	1151.6	1143.3	1105.4	1011.3
55°	1500.0	1516.5	1562.7	1628.8	1689.8	1703.8	1699.8	1684.0	1600.7	1377.0	1132.6
57.5°	2062.2	2155.4	2242.9	2281.8	2276.8	2233.1	2201.7	2138.1	2017.6	1745.2	1372.0
60°	2843.1	2857.9	2811.7	2743.2	2627.7	2531.1	2427.9	2309.0	2134.0	1867.4	1519.0
62.5°	3562.2	3362.4	3156.8	2963.6	2787.8	2634.3	2490.6	2324.7	2096.8	1818.7	1500.0
65°	4069.8	3647.2	3322.7	3045.4	2796.9	2582.3	2403.1	2187.7	1930.9	1679.9	1390.2
67.5°	4331.5	3683.5	3185.7	2799.4	2446.8	2149.6	1911.1	1701.5	1510.7	1400.9	1216.8
70°	4039.3	3126.2	2432.8	1996.2	1574.3	1262.2	997.2	837.1	781.8	885.8	921.2
72.5°	3009.8	2034.9	1447.2	1119.4	857.7	683.5	524.2	411.9	335.1	351.7	456.5
75°	1423.2	878.3	620.8	472.2	375.6	311.2	254.3	232.8	194.8	161.8	151.9
77.5°	553.9	403.7	333.5	244.4	173.4	139.5	118.9	114.7	117.2	113.9	112.2
80°	421.9	285.6	179.2	131.3	113.1	99.9	88.3	85.1	86.6	90.8	94.9
82.5°	235.2	146.9	109.0	94.9	85.1	72.6	66.0	61.1	61.9	66.8	76.0
85°	90.8	71.0	65.2	62.7	58.7	47.0	40.4	41.2	47.0	56.2	56.2
87.5°	9.9	9.9	13.2	9.9	9.9	9.9	9.1	10.8	11.6	14.8	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0	1561.0
2.5°	1547.0	1547.0	1547.0	1545.4	1546.2	1542.9	1542.9	1540.4	1544.6	1542.1	1541.2
5°	1523.1	1522.3	1519.0	1519.0	1519.0	1519.0	1521.5	1514.8	1519.8	1519.8	1517.3
7.5°	1482.7	1482.7	1473.6	1478.5	1476.9	1479.4	1482.7	1479.4	1484.2	1487.6	1485.1
10°	1426.5	1426.5	1419.1	1424.9	1422.4	1428.2	1433.9	1430.7	1433.9	1438.9	1440.5
12.5°	1364.6	1361.2	1354.7	1357.2	1357.2	1360.4	1362.9	1367.0	1371.2	1377.8	1381.1
15°	1292.7	1287.8	1279.6	1279.6	1274.6	1276.3	1281.2	1282.9	1291.1	1300.2	1311.0
17.5°	1219.3	1206.9	1197.8	1187.2	1178.9	1185.5	1191.2	1195.3	1202.0	1216.0	1223.4
20°	1149.9	1125.2	1107.9	1093.8	1084.8	1088.9	1096.3	1101.2	1107.0	1110.4	1112.8
22.5°	1081.5	1053.4	1029.4	1012.1	997.2	1001.3	998.0	995.5	999.7	989.0	988.2
25°	1022.0	989.0	956.8	936.2	918.0	912.2	894.8	890.8	879.2	870.1	863.5
27.5°	979.1	936.2	900.6	876.7	847.8	826.3	804.0	781.8	769.4	754.5	747.2
30°	945.2	899.8	857.7	817.3	779.3	746.3	716.6	687.7	667.9	646.4	632.3
32.5°	913.9	871.7	820.6	765.3	714.1	676.9	638.1	605.1	573.8	545.7	525.1
35°	892.4	845.4	780.1	712.4	654.6	610.9	569.6	522.6	484.6	448.3	426.0
37.5°	880.8	823.0	743.0	667.9	603.4	553.9	502.7	448.3	402.1	368.2	334.3
40°	871.7	800.7	709.9	628.2	560.5	501.1	441.7	377.3	326.1	290.6	264.1
42.5°	861.9	776.0	681.0	596.9	521.8	452.4	380.5	312.0	263.3	238.5	227.0
45°	851.1	754.5	653.8	567.2	483.7	399.6	317.0	253.5	224.6	216.3	216.3
47.5°	848.6	740.5	634.0	538.2	440.8	338.4	258.3	218.8	210.5	212.1	215.4
50°	858.5	736.4	616.7	504.4	383.8	274.1	218.8	205.6	207.3	212.1	217.1
52.5°	882.5	739.7	598.5	457.3	316.2	226.2	202.3	201.5	206.4	213.8	218.8
55°	922.9	739.7	563.8	387.2	252.6	203.1	196.5	199.8	206.4	213.0	217.1
57.5°	1009.6	732.2	502.7	309.5	211.3	194.8	194.8	199.0	204.8	211.3	214.6
60°	1112.8	722.4	416.9	239.4	190.7	188.2	194.0	199.0	203.9	209.6	213.0
62.5°	1119.4	696.8	330.3	198.1	180.0	184.0	193.2	199.8	201.5	205.6	209.6
65°	1028.6	607.6	262.5	177.5	175.0	181.7	190.7	195.6	196.5	198.1	202.3
67.5°	900.6	495.3	212.1	167.6	170.1	177.5	182.5	186.5	189.0	193.2	194.0
70°	739.7	397.9	181.7	157.7	160.1	168.4	172.5	176.7	181.7	186.5	184.0
72.5°	524.2	309.5	159.3	146.9	150.3	157.7	162.6	165.9	170.1	175.0	171.7
75°	222.9	216.3	137.8	133.0	137.8	142.8	147.8	152.7	156.9	159.3	159.3
77.5°	113.9	127.2	118.9	118.9	122.2	127.2	131.3	136.2	138.7	141.1	144.5
80°	96.6	98.2	99.9	103.2	106.5	111.4	115.5	119.7	120.5	121.3	123.0
82.5°	80.1	83.4	85.1	89.9	92.4	94.1	96.6	96.6	98.2	98.2	95.8
85°	57.8	61.9	64.4	65.2	64.4	65.2	66.0	67.7	71.8	71.8	68.5
87.5°	16.5	15.6	19.8	20.6	22.3	25.6	28.9	34.7	36.4	37.9	37.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: VXS-F03-LED-E1-SL4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1561.0	1561.0	1561.0	1561.0
2.5°	1540.4	1542.1	1538.8	1539.6
5°	1517.3	1520.6	1516.5	1521.5
7.5°	1487.6	1492.5	1491.7	1490.9
10°	1444.7	1451.3	1451.3	1453.8
12.5°	1390.2	1394.3	1397.6	1399.3
15°	1316.7	1324.1	1328.3	1328.3
17.5°	1228.4	1233.4	1235.9	1232.5
20°	1116.1	1114.5	1115.2	1107.0
22.5°	986.5	989.0	981.6	983.2
25°	859.4	855.2	858.5	853.6
27.5°	736.4	737.2	728.1	732.2
30°	619.2	615.0	603.4	609.2
32.5°	506.0	495.3	482.9	475.5
35°	399.6	383.0	377.3	374.8
37.5°	313.7	295.5	289.7	283.1
40°	249.3	242.7	240.2	241.9
42.5°	223.7	223.7	225.4	226.2
45°	217.1	219.6	222.1	222.9
47.5°	217.9	220.4	223.7	224.6
50°	219.6	222.1	224.6	225.4
52.5°	220.4	220.4	222.1	222.9
55°	218.8	217.9	218.8	219.6
57.5°	215.4	213.8	214.6	217.1
60°	213.8	211.3	213.0	214.6
62.5°	209.6	208.8	210.5	211.3
65°	200.6	201.5	203.9	203.9
67.5°	192.3	193.2	194.0	194.8
70°	182.5	183.3	184.9	185.7
72.5°	170.9	174.2	176.7	180.0
75°	161.8	165.1	170.1	173.4
77.5°	146.1	148.6	154.4	158.5
80°	123.8	123.0	123.8	126.3
82.5°	94.9	94.9	94.1	93.3
85°	66.8	66.0	63.5	63.5
87.5°	36.4	35.5	34.7	33.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)